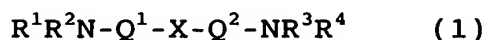
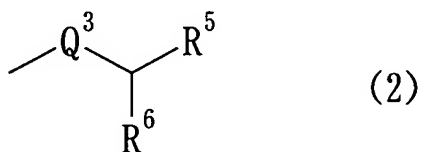


Abstract

A ligand represented by the formula (1):



5 wherein R^1 , R^2 , R^3 and R^4 are each the same or different and represent a group represented by the formula (2):



wherein Q^3 is an optionally substituted alkylene group, an optionally substituted cycloalkylene group, an optionally substituted arylene group, or an optionally substituted
 10 divalent heterocyclic group, R^5 is an optionally substituted alkyl group, an optionally substituted aryl group or an optionally substituted heterocyclic group and R^6 is a substituent which may coordinate or bind to a metal atom, or R^5 and R^6 , taken together, may form a ring, Q^1 and
 15 Q^2 are each the same or different and represent an optionally substituted alkylene group or a single bond, and X is a divalent spacer.